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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/803,374	03/10/2001	Marwan A. Jaber	1213	7373
7590 03/04/2004		EXAMINER		
ALLAN JACOBSON			MAI, TAN V	
ATTORNEY AT LAW 13310 Summit Square Center		ART UNIT	PAPER NUMBER	
Route 413 & Do	oublewoods Road		2124	
Langhorne, PA	19047		DATE MAILED: 03/04/2004	4 Ψ

Please find below and/or attached an Office communication concerning this application or proceeding.



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	Application No.	Applicant(s)	O
	09/803,374	JABER, MARWAN A.	
Office Action Summary	Examiner	Art Unit	
	Tan V Mai	2124	
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet	with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicated. If the period for reply specified above is less than thirty (30) days. - If NO period for reply is specified above, the maximum statutory. - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TON. CFR 1.136(a). In no event, however, may ion. s, a reply within the statutory minimum of the period will apply and will expire SIX (6) May statute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
Status			
 1) Responsive to communication(s) filed on 2a) This action is FINAL. 3) Since this application is in condition for a closed in accordance with the practice un 	This action is non-final. Ilowance except for formal ma	•	
Disposition of Claims			
4) Claim(s) <u>1-13</u> is/are pending in the applic 4a) Of the above claim(s) is/are wi 5) Claim(s) <u>4,6,10 and 11</u> is/are allowed. 6) Claim(s) <u>1-3,5,7-9,12 and 13</u> is/are rejec 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction	thdrawn from consideration.		
Application Papers			
9) The specification is objected to by the Example 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abey correction is required if the drawing	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for	uments have been received. uments have been received in e priority documents have bee Bureau (PCT Rule 17.2(a)).	Application No en received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-9-3) Information Disclosure Statement(s) (PTO-1449 or PTO/Paper No(s)/Mail Date	48) Paper N	y Summary (PTO-413) p(s)/Mail Date f Informal Patent Application (PTO-152)	

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- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1-3, 5, 7-9 and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aiken et al.

Rejection grounds continue to be those set forth in the previous office action (Paper No. 4).

3. Applicant's arguments filed on 12-08-03 have been fully considered but they are not persuasive.

Applicant, in his remarks, argues that: (1) "[c]laim 1 recites ... 'each ... having at least two stages of butterfly computing elements" and (2) [c]laim 1 also recites a combination phase, ... 'said ... including a single stage of butterfly computing elements".

With respect to the arguments, the examiner carefully reviews the applied reference and the claimed invention. First, the examiner agrees with applicant that Aiken et al do not disclose "at least two stages of butterfly computing elements"; however, Aiken et al's processor is capable of performing the equivalent function, e.g., the "UPDATE UNIT" has a "single stage of butterfly processing" and "accumulate" feature (see page 82, left col., Detail View section, "[t]he update unit contains the ability of ad, subtract and accumulate". Also, see page 83, right col., lines 11-12, "3. These values are passed to the Update unit for the second butterfly operation". Second, the examiner agrees with applicant that Aiken et al do not disclose "including a singl stag of butterfly computing el ments"; however, the "processing and

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communicating tree" (PCT) could provide the equivalent function by the "UPDATE UNIT". It is noted that the "UPDATE UNIT" [of a PPC] has a "single stage of butterfly processing" and received the output results from other PPCs [via the "MUX From PPC n-1,2,3" (see Fig. 2)]. Therefore, the rejection is still proper.

4. The following is an examiner's statement of reasons for allowance: the recorded references do NOT teach or suggest the detail features as recited in independent claims 4, 6, 10-11.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (703) 305-9761. The examiner can normally be reached on Tue-Fri from 6:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (703) 305-9662. The fax phone numbers for the organization where this application or proceeding is assigned are:

After-final (703) 746-7238

Official (703) 746-7239

Non-Official/Draft (703) 746-7240.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

TAN V. MAI PRIMARY EXAMINER